Comparisons of Job Characteristics

Focus Occupation: Architectural and Engineering Managers (11-9041)
Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Compare Knowledge Compare Skills Compare Abilities Compare Detailed Work Activities Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Architectural and Engineering Managers (11-9041)
Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Engineering and Technology	5.7	17.6	23.2	>>	Current knowledge level is likely more than sufficient	
Mathematics	9.2	16.6	17.4	0	Current knowledge level may be sufficient	
Mechanical	6.8	16.6	10.4	<<	Extensive education and/or training may be required	
Computers and Electronics	8.4	16.2	16.9	0	Current knowledge level may be sufficient	
Design	5.2	15.1	19.0	>>	Current knowledge level is likely more than sufficient	
Production and Processing	6.0	13.3	10.7	<	Expanded education and/or training may be required	
Physics	4.3	12.9	13.0	0	Current knowledge level may be sufficient	
Telecommunications	3.9	7.4	7.4	0	Current knowledge level may be sufficient	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 16

Focus Occupation: Architectural and Engineering Managers (11-9041)
Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	12.1	4.4	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	11.5	7.0	<<	Extensive development of skills in this area may be required
Mathematics	6.2	10.8	11.7	-	Current skill level may be sufficient

Troubleshooting	4.5	10.6	2.6	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	10.4	1.0	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	9.4	1.0	<<	Extensive development of skills in this area may be required
Repairing	3.4	9.4	1.0	<<	Extensive development of skills in this area may be required
Technology Design	2.6	7.0	3.3	<<	Extensive development of skills in this area may be required
Installation	1.7	6.2	1.0	<<	Extensive development of skills in this area may be required
Programming	2.2	4.9	2.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Architectural and Engineering Managers (11-9041)
Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visualization	7.5	12.3	10.1	<	Some improvement in abilities may be required
Information Ordering	9.9	12.0	12.0	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	11.2	13.3	>	Current ability level is likely sufficient
Flexibility of Closure	7.8	10.5	7.9	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	10.3	6.9	<<	Extensive improvement in abilities may be required
Number Facility	6.3	10.2	11.2	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.6	6.6	<<	Extensive improvement in abilities may be required
Memorization	5.6	7.5	5.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 73

Focus Occupation: Architectural and Engineering Managers (11-9041)

Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12

Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Electrochemical measuring instruments and accessories	9
Finance accounting and enterprise resource planning ERP software	2
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Laboratory decanting and distilling and evaporating and extracting equipment and supplies	19
Laboratory enclosures and accessories	17
Laboratory heating and drying equipment	13
Laboratory incubating equipment	20
Network applications software	1
Pressure measuring and control instruments	10
Safety apparel	4
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Water treatment and supply equipment	21

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.